

Supplemental Material

Disruption of Thyroid Hormone Receptor-Mediated Transcription and Thyroid Hormone-Induced Purkinje Cell Dendrite Arborization by Polybrominated Diphenylethers.

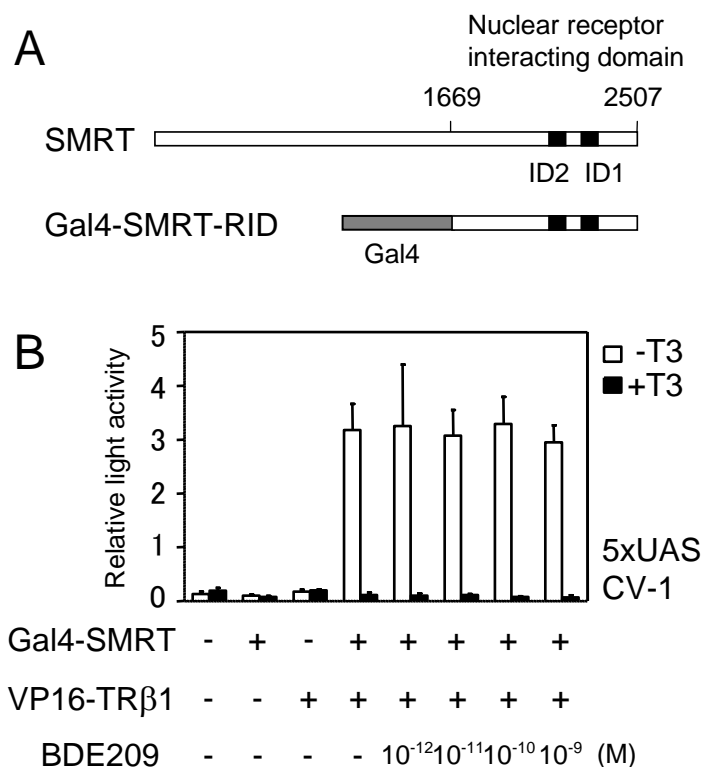
**Kingsley Ibhazehiebo¹, Toshiharu Iwasaki^{1*}, Junko Kimura-Kuroda², Wataru
Miyazaki^{1,3}, Noriaki Shimokawa¹, and Noriyuki Koibuchi¹.**

¹Department of Integrative Physiology, Gunma University Graduate School of
Medicine, Maebashi, Japan. ²Department of Developmental Morphology, Tokyo
Metropolitan Institute for Neuroscience, Tokyo, Japan. ³Laboratory of Environmental
Health Sciences, Center for Disease Biology and Integrative Medicine, Graduate School
of Medicine, The University of Tokyo, Tokyo, Japan.

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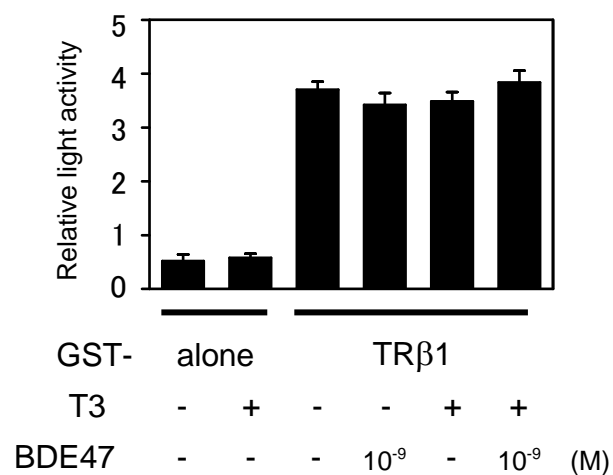
Supplemental Material, Figure 1



Effect of PBDE on TR-SMRT binding in the presence of T₃ in CV-1 cells.

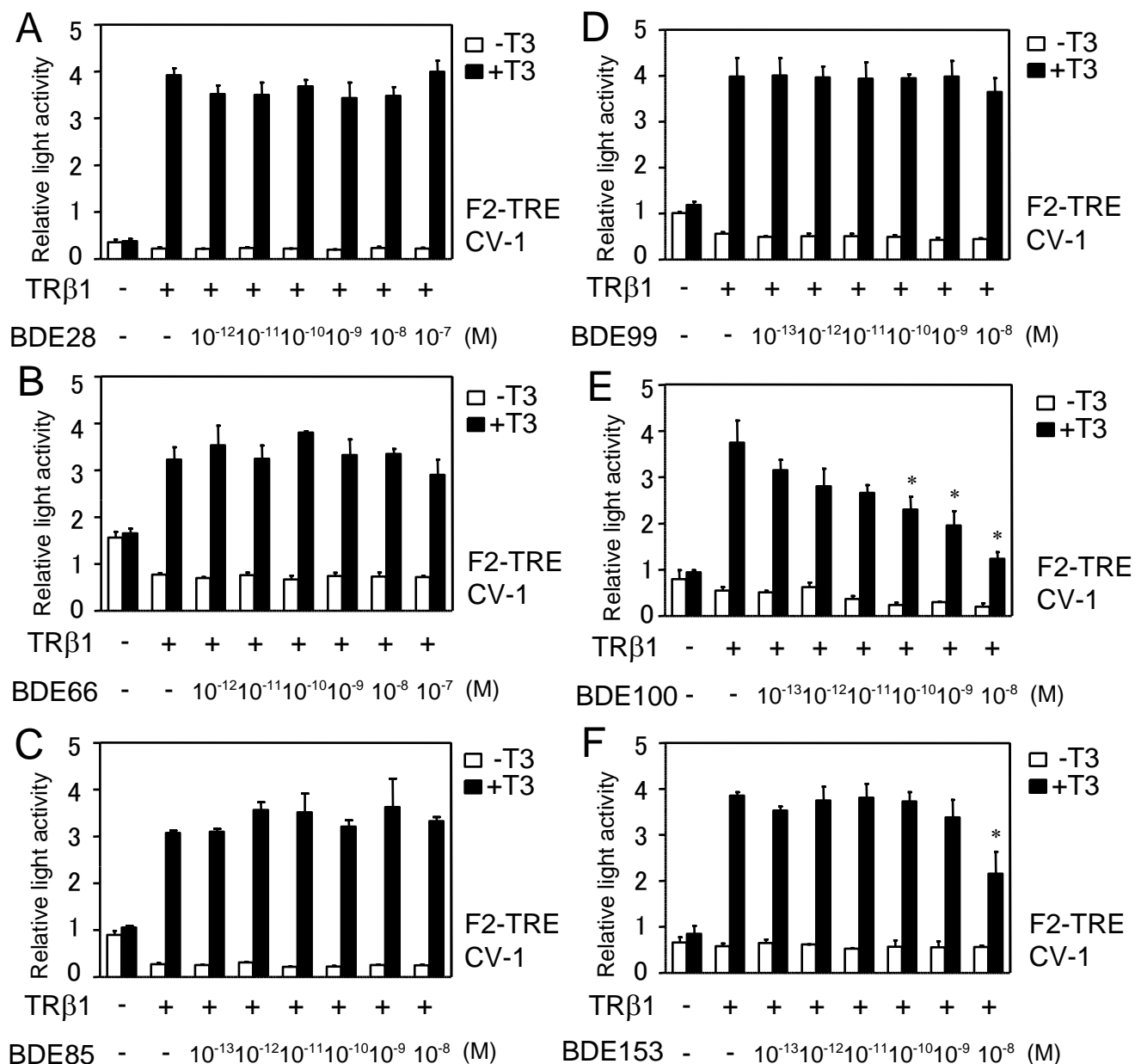
(A) Schematic diagram of Gal4-SMRT. Gal4-SMRT contains amino acid residues 1669-2507 SMRT. (B) PBDE did not recruit SMRT to liganded TR. Expression plasmids harboring Gal4-DBD-fused SMRT (100 ng) were cotransfected with VP16-TRβ1-LBD (50 ng) and 5x UAS-TK-LUC (100 ng) into CV-1 cells. Cells were incubated with or without T₃ (10^{-7} M) and indicated concentrations of BDE209. Data represent mean \pm S.E.M. of experiments performed in triplicate. No statistical significance was determined.

Supplemental Material, Figure 2



BDE47 did not alter the TR-TRE binding. GST-TRβ1 bound to sepharose beads is incubated with DIG-labeled-F2-TRE in protein-DNA binding buffer with or without T₃ (10⁻⁶ M) and BDE47 (10⁻⁹ M). Data represent mean \pm S.E.M. of experiments performed in triplicate. No statistical significance was uncovered.

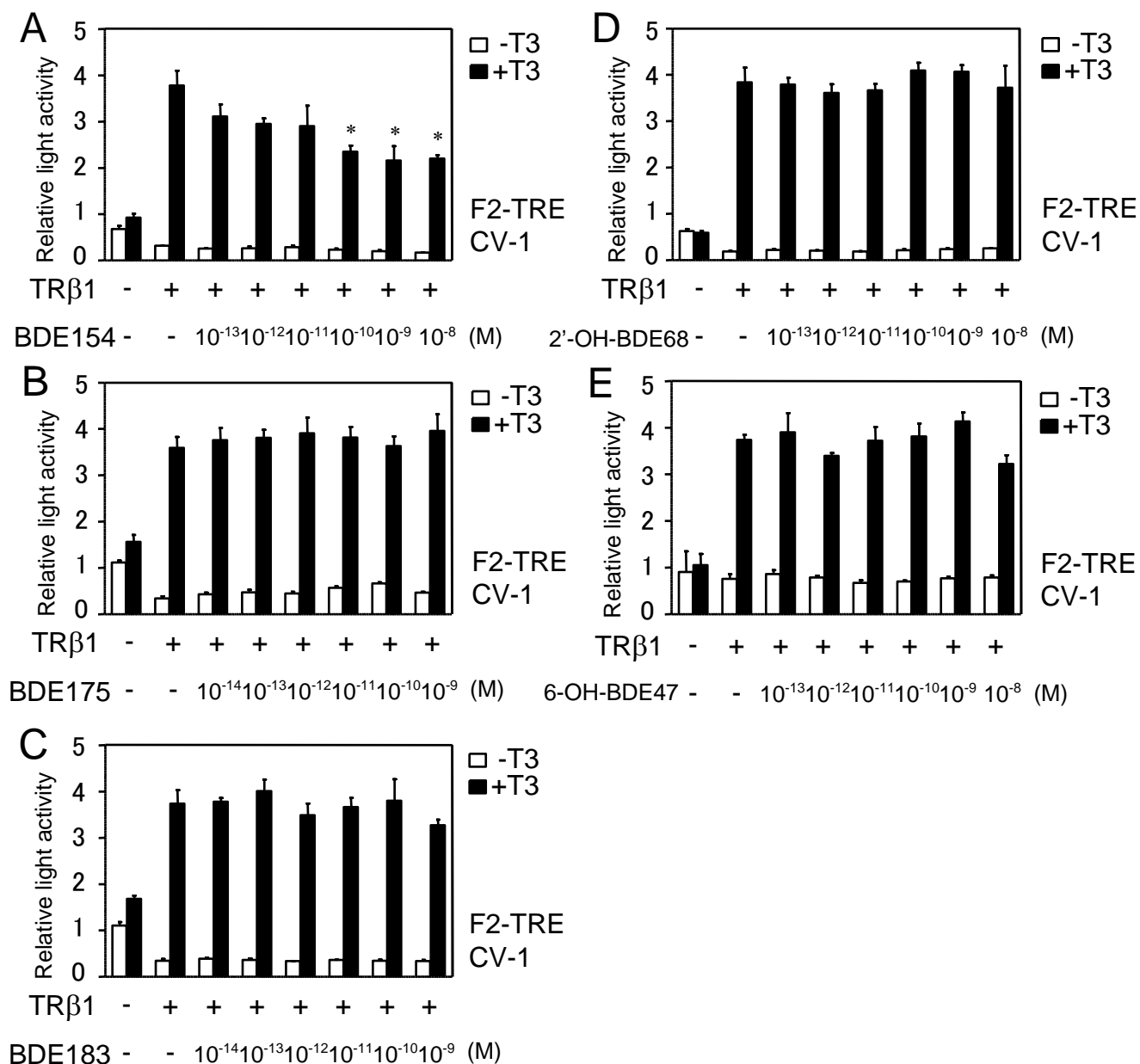
Supplemental Material, Figure 3



Congener-specific suppression of TR-mediated transcription by PBDE.

(A-F) Expression plasmids encoding TRβ1 (10 ng) were cotransfected with F2-TK-LUC (100 ng) into CV-1 cells. Cells were incubated with or without 10^{-7} M T₃ and indicated amounts of listed PBDE. Data represent mean \pm S.E.M. of experiments performed in triplicate. $p < 0.01$ by ANOVA, compared with TRβ1 (+), T₃ (+), and PBDE (-).

Supplemental Material, Figure 4



Congener-specific suppression of TR-mediated transcription by PBDE/OH-PBDE.

(A-E) Expression plasmids encoding TRβ1 (10 ng) were cotransfected with F2-TK-LUC (100 ng) into CV-1 cells. Cells were incubated with or without 10⁻⁷ M T₃ and indicated amounts of listed PBDE/OH-PBDE. Data represent mean ± S.E.M. of experiments performed in triplicate.

p < 0.01 by ANOVA, compared with TRβ1 (+), T₃ (+), and PBDE/OH-PBDE (-).